

5" X 6" METAL CUTTING BANDSAW



OWNER'S MANUAL

(FOR MODELS MANUFACTURED SINCE 6/09)

Phone: (360) 734-3482 · Online Technical Support: tech-support@shopfox.biz

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WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT

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This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

Failure to read, understand and follow the instructions given in this manual may result in serious personal injury, including amputation, electrocution or death.

The owner of this machine/equipment is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, blade/cutter integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.



Contents

| INTRODUCTION2Woodstock Technical Support2Machine Specifications3 |
|---|
| SAFETY6 Standard Machinery Safety6 Additional Safety for Metal Cutting Bandsaws8 |
| ELECTRICAL9110V/220V Operation9Extension Cords9Electrical Specifications9 |
| SETUP10Unpacking10Inventory10Machine Placement11Cleaning Machine11Wheels, Feet, and Cabinet12Shipping Strap Removal14& Stop Adjustment14Squaring Vise to Blade14Chip Tray & Cast Iron Stop15Automatic OFF Adjustment16Pulley Cover17Blade Tension18Blade Guides19Test Run20 |
| OPERATIONS 21 General 21 Operation 21 Blade Speed 23 Blade Selection 24 Food Pate 25 |

| MAINTENANCE General Cleaning Lubrication | 26 26 |
|--|----------------------|
| SERVICE General Blade Change Blade Tracking Electrical Safety Instructions Wiring Diagram Troubleshooting. | 27 27 29 30 |
| PARTS Motor & Feed Rate Control Saw Assembly Stand Assembly Guides & Shafts Machine Labels | 34 36 38 40 |
| WARRANTY | 45 |



INTRODUCTION Woodstock Technical Support

This machine has been specially designed to provide many years of trouble-free service. Close attention to detail, ruggedly built parts and a rigid quality control program assure safe and reliable operation.

Woodstock International, Inc. is committed to customer satisfaction. Our intent with this manual is to include the basic information for safety, setup, operation, maintenance, and service of this product.

We stand behind our machines! In the event that questions arise about your machine, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: <u>tech-support@shopfox.</u> <u>biz.</u> Our knowledgeable staff will help you troubleshoot problems and process warranty claims.

If you need the latest edition of this manual, you can download it from http://www.shopfox.biz. If you have comments about this manual, please contact us at:

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MACHINE SPECIFICATIONS



Phone #: (360) 734-3482 • Online Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz

MODEL M1013 5" X 6" METAL CUTTING BANDSAW

| Motor |
|--|
| Type |
| Main Specifications |
| Operation Info |
| Blade Speeds |
| Cutting Capacities |
| Angle Cuts Vise Jaw Depth Vise Jaw Height Vise Jaw Height Max. Capacity Rectangular Height @ 90° Max. Capacity Rectangular Width @ 90° Max. Capacity Rectangular Height @ 60° Max. Capacity Rectangular Height @ 60° Max. Capacity Rectangular Width @ 60° Max. Capacity Rectangular Width @ 60° Max. Capacity Rectangular Height @ 45° Max. Capacity Rectangular Width @ 45° Max. Capacity Rectangular Width @ 45° Max. Capacity Round @ 90° Max. Capacity Round @ 90° Max. Capacity Round @ 60 Max. Capacity Round @ 45° |
| Table info |
| Length |



| Overall Dimensions |
|---|
| Weight 150 lbs. Length 39" Width 23³/8" Height 54³/4" Foot Print (Length/Width) 26¹/2" x 20¹/2" |
| Construction Materials |
| Table |
| Shipping Dimensions |
| Weight 176 lbs. Length 41" Width 19" Height 22" |
| Electrical |
| Switch |
| Other |
| Wheel Size |

Features

Control Panel Conveniently Located Adjustable Hydraulic Downfeed Quick Release Vise for Rapid Workpiece Change-Out Blade Included



Controls and Features

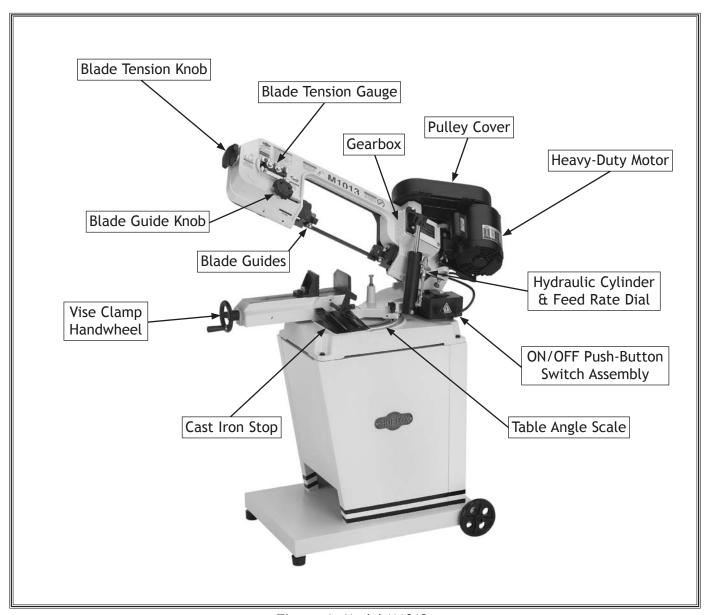


Figure 1. Model M1013.



SAFETY

READ MANUAL BEFORE OPERATING MACHINE. FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL RESULT IN PERSONAL INJURY.

▲DANGER

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING result in death or serious injury. Indicates a potentially hazardous situation which, if not avoided, COULD

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment, and/or a situation that may cause damage to the machinery.

Standard Safety Instructions

- 1. READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY. Machinery presents serious injury hazards to untrained users.
- 2. ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY. Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
- 3. ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES **DUST.** Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.
- 4. ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY. Machinery noise can cause permanent hearing damage.
- 5. WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- 6. NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Be mentally alert at all times when running machinery.
- 7. ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY. Make sure operation instructions are safe and clearly understood.
- 8. KEEP CHILDREN AND VISITORS AWAY. Keep all children and visitors a safe distance from the work area.
- 9. MAKE WORKSHOP CHILD PROOF. Use padlocks, master switches, and remove start switch keys.



- **10. NEVER LEAVE WHEN MACHINE IS RUNNING.** Turn power *OFF* and allow all moving parts to come to a complete stop before leaving machine unattended.
- **11. DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
- 12. KEEP WORK AREA CLEAN AND WELL LIT. Clutter and dark shadows may cause accidents.
- 13. USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE. Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
- **14. ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY.** Make sure switch is in OFF position before reconnecting.
- **15. MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.
- **17. REMOVE ADJUSTING KEYS AND WRENCHES.** Make a habit of checking for keys and adjusting wrenches before turning machinery **ON**.
- **18. CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
- **19. USE RECOMMENDED ACCESSORIES.** Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 20. DO NOT FORCE MACHINERY. Work at the speed for which the machine or accessory was designed.
- **21. SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.
- 22. DO NOT OVERREACH. Keep proper footing and balance at all times.
- 23. MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR. Know and avoid conditions that cause the workpiece to "kickback."
- 24. ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
- **25. BE AWARE THAT CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Make sure you know the hazards associated with the type of dust you will be exposed to and always wear a respirator approved for that type of dust.



Additional Safety for Metal Cutting Bandsaws



AWARNING

READ and understand this entire manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!

CAUTION

USE this and other machinery with caution and respect. Always consider safety first, as it applies to your individual working conditions. No list of safety guidelines can be complete—every shop environment is different. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.

- 1. Blade Condition: Do not operate with a dull, cracked or badly worn blade—they can break during use or greatly decrease cutting performance. Inspect blades for cracks and missing teeth before each use.
- 2. Blade Replacement: Wear gloves to protect hands and safety glasses to protect eyes when replacing the blade. When replacing blades, make sure teeth face forward and down toward the table in the direction of blade travel.
- 3. Workpiece Handling: Your hands can be cut or drawn into the blade during operation if the workpiece moves unexpectedly. Always keep your hands a safe distance away from the moving blade.
- **4.** Magnesium Fire Hazard: Use EXTREME CAUTION if cutting magnesium. Using the wrong cutting fluid or overheating material could lead to an extremely hot fire that is difficult to extinguish. Additionally, do not allow magnesium swarf or dust to pile up around the machine and only dispose of the waste using approved methods.
- **5. Hot Surfaces:** Be aware that touching hot workpieces or chips after welding, grinding, or cutting can cause burns.
- 6. Cutting Fluid Safety: If cutting fluid is used for operations, only use the minimum amount necessary, and promptly clean it from the machine and work area after use. Cutting fluid is associated with skin disease, lung damage, and cancer. Avoid breathing, ingesting, or touching cutting fluid and always wear approved personal protective equipment when using or cleaning it. Always follow the manufacturer's recommendation to ensure safe and appropriate use.
- 7. Entanglement Hazards: Always keep the blade guard correctly positioned and wheel doors closed and secured when bandsaw is in operation. Loose clothing, jewelry, long hair and work gloves can be drawn into working parts.
- 8. Unstable Workpieces: Workpieces that cannot be supported or stabilized without a vise or jig should not be cut on a vertical metal-cutting bandsaw, because they can unexpectedly move while cutting and draw the operator's hands into the blade causing serious personal injury. Examples are chains, cables, round or oblong-shaped workpieces, workpieces with internal or built-in moving or rotations parts, etc.
- **9.** Clearing Chips: Metal chips can easily cut skin—even through a piece of cloth. Avoid clearing chips by hand or with a rag. Use a brush or vacuum to clear metal chips.



ELECTRICAL

AWARNING

The machine must be properly set up before it is safe to operate. DO NOT connect this machine to the power source until instructed to do so in the "Test Run" portion of this manual.

110V/220V Operation

The Model M1013 is prewired for 110V operation. For 220V operation, the motor must be re-wired as directed by the wiring diagram on the inside of the motor junction box cover. If this diagram is not available, use the wiring diagram on Page 31.

The power supply circuit used for this machine MUST be grounded and rated for the amperage given below. Never replace a circuit breaker with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes.

This machine must be grounded! The cord supplied with this machine comes with a grounding wire. If your outlet does not accommodate a ground pin, have it replaced by a qualified electrician.

If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire or circuit overload hazard—consult a qualified electrician to reduce this risk.

Extension Cords

We do not recommend using an extension cord; however, if you have no alternative, use the following guidelines:

- Use a cord rated for Standard Service (S).
- Do not use an extension cord longer than 50 feet.
- Ensure that the cord has a ground wire and pin.
- Use the gauge size listed below as a minimum.

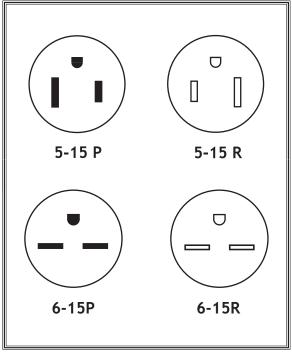


Figure 2. NEMA 5-15 and 6-15 plugs and receptacles.



DO NOT work on your electrical system if you are unsure about electrical codes and wiring! Seek assistance from a qualified electrician. Ignoring this warning can cause electrocution, fire, or machine damage.

Electrical Specifications

| Operating Voltage | Amp Draw | Min. Circuit Size | Recommended Plug | Extension Cord |
|-------------------|----------|-------------------|-----------------------|----------------|
| 110V Operation | 8 Amps | 15A | NEMA 5-15 (incl.) | 14 Gauge |
| 220V Operation | 4 Amps | 15A | NEMA 6-15 (not incl.) | 16 Gauge |



SETUP

Unpacking

This machine has been carefully packaged for safe transportation. If you notice the machine has been damaged during shipping, please contact your authorized Shop Fox dealer immediately.

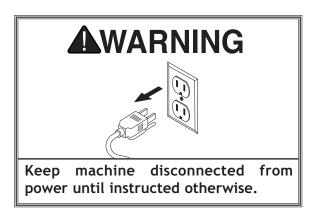
Inventory

The following is a description of the main components shipped with the Model M1013. Lay the components out to inventory them.

Note: If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for safer shipping.

| Inve | entory (Figure 3) | Qty |
|------|-------------------|-----|
| A. | Base | 1 |
| В. | Front Panel | 1 |
| C. | Rear Panel | 1 |
| D. | Right Panel | 1 |
| E. | Left Panel | 1 |
| F. | Chip Tray | 1 |
| G. | Feet | 4 |
| Н. | Axle | 1 |
| ١. | V-Belt | 1 |
| | | |

| J. | Belt Cover1 |
|--------------|--|
| K. | Work Stop1 |
| L. | Work Stop Shaft1 |
| M. | Wheels2 |
| | |
| Asse | embly Hardware (Not Shown): |
| -Kn | ob Bolt $\frac{1}{4}$ "-20 x $\frac{5}{8}$ " (Pulley Cover)1 |
| $-H\epsilon$ | ex Bolt M8-1.25 x 30 (Saw-Cabinet)4 |
| -Fla | at Washer 17mm (Wheels)4 |
| -Cc | otter Pin 1/8" x 1" (Wheels)2 |
| $-H\epsilon$ | ex Bolts M8-1.25 x 16 (Cabinet) 16 |
| $-H\epsilon$ | ex Nuts M8-1.25 (Cabinet) 16 |
| -Fla | at Washer 8mm 32 |
| -Не | ex Bolt 1/4"-20 x 1/2"2 |
| -Fla | at Washer 1/4"3 |
| | |



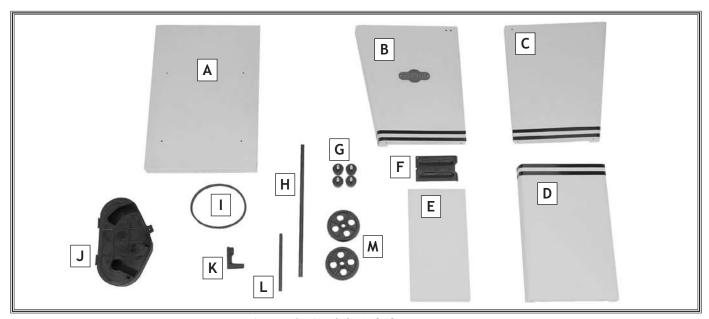
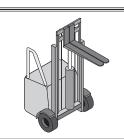


Figure 3. Model M1013 inventory.



Machine Placement

- Floor Load: This machine distributes a heavy load in a small footprint. Some residential floors may require additional bracing to support both machine and operator.
- Working Clearances: Consider existing and anticipated needs, size of material to be processed through the machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your Machine Type.
- Lighting: Lighting should be bright enough to eliminate shadow and prevent eye strain.
- Electrical: Electrical circuits must be dedicated or large enough to handle amperage requirements. Outlets must be located near each machine, so power or extension cords are clear of high-traffic areas. Follow local electrical codes for proper installation of new lighting, outlets, or circuits.



WARNING

USE helpers or power lifting equipment to lift this Machine Name. Otherwise, serious personal injury may occur.



ACAUTION

MAKE your shop "child safe." Ensure that your workplace is inaccessible to children by closing and locking all entrances when you are away. NEVER allow untrained visitors in your shop when assembling, adjusting or operating equipment.

Cleaning Machine

The table and other unpainted parts of your metal cutting bandsaw are coated with a waxy grease that protects them from corrosion during shipment. Clean this grease off with a solvent cleaner or citrus-based degreaser. DO NOT use chlorine-based solvents such as brake parts cleaner or acetone—if you happen to splash some onto a painted surface, you will ruin the finish.



WARNING

NEVER clean with gasoline or other petroleum-based solvents. Most have low flash points, which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored!





ACAUTION

ALWAYS work in well-ventilated areas far from possible ignition sources when using solvents to clean machinery. Many solvents are toxic when inhaled or ingested. Use care when disposing of waste rags and towels to be sure they DO NOT create fire or environmental hazards.



Wheels, Feet, and Cabinet

This bandsaw is shipped with four rubber feet with posts and two wheels with an axle. It is your option to install four rubber feet if you do not need to move the bandsaw, or install the axle and wheels if you need to move the bandsaw regularly.

To install the wheels, feet, and the cabinet, do these steps:

- 1. At the end of the base with the axle holes, insert the axle into the base (see Figure 4).
- 2. Slide a 17mm flat washer and wheel onto each end of the axle, followed by another 17mm flat washer and cotter pin.
- 3. Thread rubber feet into the base (see Figure 4).
- **4.** Position the base on the floor, and adjust the feet until the base is level and stable.
- **5.** Tighten the hex nuts against the base to lock the feet in position.
- 6. Position the front and rear panels on the base and install the panels to the base with four M8-1.25 x 16 hex bolts, eight 8mm flat washers, and four M8-1.25 hex nuts (see Figure 5).
- 7. Position the left panel between the front and rear panels, and secure it in place with six M8-1.25 x 16 hex bolts, twelve 8mm flat washers, and six M8-1.25 hex nuts (see Figure 6).



Figure 4. Installing wheels and feet.



Figure 5. Front and rear panels installed.

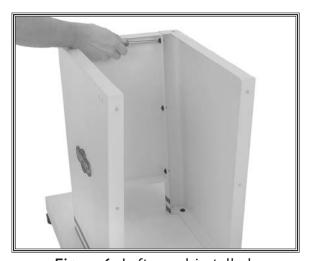


Figure 6. Left panel installed.



8. Position the right panel between the front and rear panel, and secure it in place with six M8-1.25 x 16 hex bolts, twelve 8mm flat washers, and six M8-1.25 hex nuts (see Figure 7).



AWARNING

The Model M1013 is heavy! To avoid personal injury, get help to lift this machine.

- **9.** With the help of an assistant or a hoisting device, place the bandsaw onto the cabinet.
- **10.** Secure the bandsaw to the cabinet with four M8-1.25 x 30 hex bolts, as shown in **Figure 8**.



Figure 7. Installing right panel.



Figure 8. Installing bandsaw to cabinet.



Shipping Strap Removal & Stop Adjustment

To ensure that your bandsaw arrives without damage to the hinge system, a shipping strap was installed. After removing the shipping strap, you will have to make a series of adjustments, beginning with the feed stop bolt.

To remove the shipping strap and adjust the feed stop bolt, do these steps:

1. Remove the shipping strap hex bolt and strap with a 12mm wrench, as shown in **Figure 9**.

Note: Keep this shipping strap in the event that you must transport or ship the bandsaw.

2. Adjust the feed stop bolt and jam nut with a 14mm wrench (Figure 10), so the bandsaw blade teeth are just below the table surface when the cut is complete.

Squaring Vise to Blade

To ensure that your bandsaw will make cuts that match the degree scale, you must make sure to square the vise to the blade.

To square the vise to the blade, do these steps:

- 1. Rotate the headstock until the pointer reads "0" on the tabletop scale, and tighten the headstock lock lever so the headstock stays indexed at zero.
- 2. Using a 6mm wrench, loosen the two cap screws that hold the vise to the table, as shown in **Figure 11**.
- 3. Using a small machinists square, adjust the vise so it is square to the blade.
- **4.** Tighten the two cap screws, so the vise and blade are square with one another.

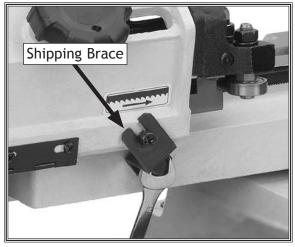


Figure 9. Removing shipping strap.

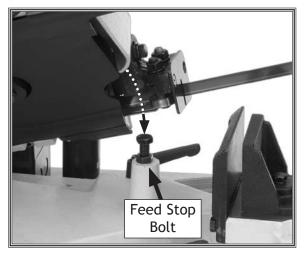


Figure 10. Feed stop bolt.

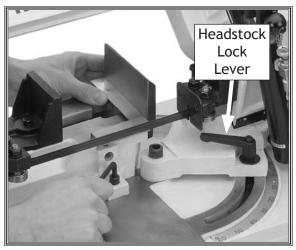


Figure 11. Squaring vise to blade, headstock, and table scale.



Chip Tray & Cast Iron Stop

The chip tray directs small workpieces into a bucket when the cut is complete. The cast iron stop allows you to repeat cuts at the same length.

To install the chip tray and cast iron stop, do these steps:

- 1. Position the chip tray, as shown in Figure 12.
- 2. Insert the stop rod approximately ³/₄" into the saw until the end of the rod is just flush with the inside casting surface, as shown in **Figure 13**.
- 3. Use a 4mm hex wrench to tighten the set screw shown in Figure 13.
- 4. Slide the cast iron stop onto the stop rod and tighten the set screw in the side of the stop, as shown in Figure 14.



Figure 12. Chip tray installed.

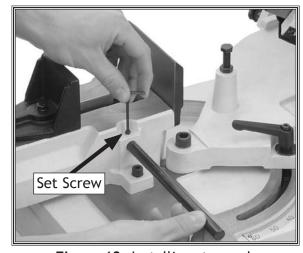


Figure 13. Installing stop rod.

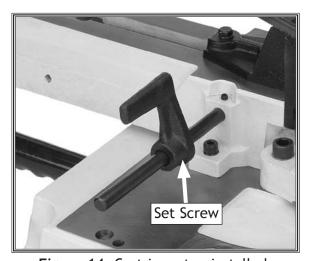


Figure 14. Cast iron stop installed.



Automatic OFF Adjustment

After you have removed the shipping strap and have adjusted the headstock stop bolt, you must adjust the OFF button lever stop bolt, so the bandsaw shuts OFF automatically when a cut is complete.

To set the adjust the OFF button, do these steps:

- 1. With the headstock in the complete down position, loosen the 12mm stop bolt and jam nut shown in Figure 15.
- 2. Push down on the OFF button lever so the button is completely depressed.
- 3. While keeping the lever depressed, use your fingertips to turn the stop bolt until the head just touches the lever.
- 4. Back off the stop bolt 1/3 turn and tighten the jam nut.

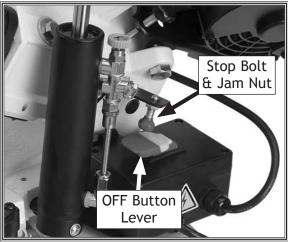


Figure 15. Automatic OFF components.



Pulley Cover

When opened, the pulley cover gives you access to change the pulley ratio so the bandsaw can cut at one of three speeds.



AWARNING

ENTANGLEMENT HAZARD!

MAKE SURE the bandsaw is unplugged before proceeding!

Otherwise, severe injury may occur.

To install the pulley cover, do these steps:

- 1. Position and rotate the pulley cover into place, as shown in **Figure 16**.
- 2. Install the two $\frac{1}{4}$ -20 x $\frac{1}{2}$ " hex bolts and washers to secure the pulley cover.
- Loosen the belt tension knob enough to install the belt on the appropriate pulley that will give the required blade speed. Refer to Blade Speed on Page 23 for blade speed selections.
- **4.** Adjust the belt tension knob (**Figure 17**), so the belt has approximately $^{1}/_{4}$ " deflection when pressed in between the pulleys, then close and secure the cover with the $^{1}/_{4}$ "-20 x $^{5}/_{8}$ " knob bolt and $^{1}/_{4}$ " flat washer.

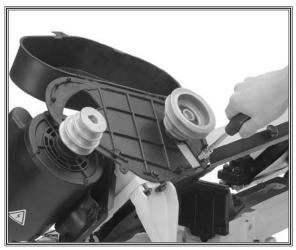


Figure 16. Positioning the pulley cover.

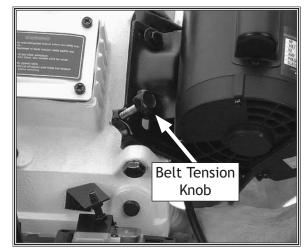


Figure 17. Belt tension knob.



Blade Tension

Proper blade tension is essential to long blade life, straight cuts, and efficient cutting.

Two major signs that you do not have proper blade tension are: 1) the blade stalls in the cut and slips on the wheels, and 2) the blade frequently breaks from being too tight.



AWARNING

Disconnect bandsaw from power BEFORE making and adjustments to the machine!



- Make sure the blade is tracking properly (refer to Blade Tracking on Page 29 for detailed instructions).
- 2. Remove the cylinder lock pin, raise the headstock to the full vertical position, and push the safety stop inward to lock the headstock in the vertical position (see Figure 18).
- 3. Open the blade cover, as shown in **Figure 19**, slide the blade guides as far apart as possible, then secure them in place
- **4.** Turn the blade tension knob until the blade is snug, and the blade tension scale indicates "medium" (see **Figure 20**).
- **5.** Adjust the blade guides as instructed in the next subsection
- 6. Close and secure the blade guard.

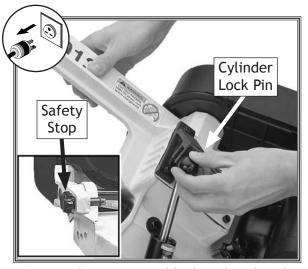


Figure 18. Raising and locking headstock.

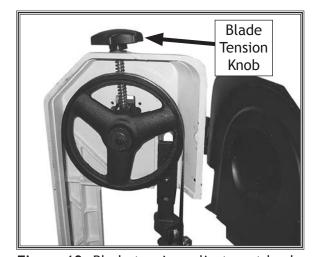


Figure 19. Blade tension adjustment knob.

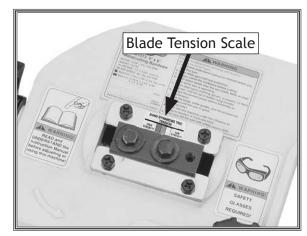


Figure 20. Typical blade tension scale.



Blade Guides

The blade guide side bearings support and twist the blade straight so the blade will enter the workpiece perpendicular to the table surface (see Figure 21). The blade guide support bearings prevent blade twist by stopping the blade from being pushed back during a cut. Both adjustments are critical for correct saw operation.

Note: Make sure the blade is tensioned and tracks correctly before you adjust the blade guide bearings. Refer to Blade Tension on the previous page and Blade Tracking on Page **29** for detailed instructions.

To adjust the guide bearings, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- **2.** Let the bandsaw headstock park in the full down position.
- 3. Use a 12mm wrench to loosen the lower guide bearing adjustment hex bolt shown in Figure 22.
- **4.** Adjust the blade guide housing so the support bearing rests against the rear of the blade, as illustrated in **Figure 21.**
- 5. Tighten the adjustment hex bolt.
- **6.** Use a 14mm wrench to loosen the outer side bearing eccentric jam nuts of the upper guide bearing.

Note: The inner side bearing are not on eccentric shafts and cannot be adjusted.

7. Use a 12mm wrench to rotate the side bearing eccentrics until the bearings hold the blade perpendicular to the table surface, and have a bearing-to-blade clearance of 0.000"—0.001". The bearings must not pinch the blade.

Note: To make sure the blade is perpendicular to the table, use a standard machinist's square.

8. Tighten the jam nuts, loosen the lock knob, and slide the blade guide close to the workpiece so the blade is supported and will not twist during the cut (see Figure 23).

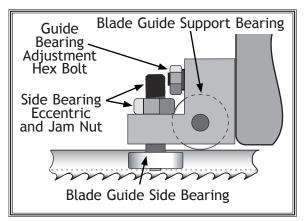


Figure 21. Blade guide adjustment locations.

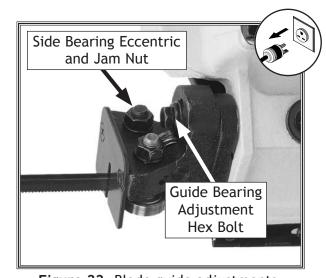


Figure 22. Blade guide adjustments.

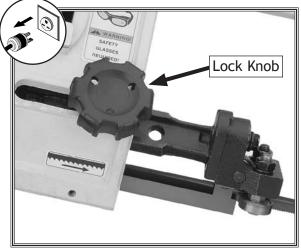


Figure 23. Blade guide position lock knob.



Test Run

Once the assembly is complete, test run your machine to make sure it runs properly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 32**.

If you still cannot remedy a problem, contact our Tech Support at (360) 734-3482 for assistance.

To test run the machine, do these steps:

- 1. Make sure you understand the safety instructions at the beginning of the manual, and verify that the machine is setup properly.
- **2.** Ensure all tools and objects used during set up are cleared away from the machine.
- **3.** Connect the machine to the power source.
- 4. Start the bandsaw while keeping your finger near the ON/OFF switch at all times during the test run. The bandsaw should run smoothly with little or no vibration.
 - Strange or unusual noises should be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.
- **5.** Turn the machine **OFF**.

AWARNING



Projectiles thrown from the machine could cause serious eye injury. Wear safety glasses to reduce the risk of injury.

AWARNING



Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing rolled up and long hair tied up and away from machinery.



OPERATIONS

General

This machine will perform many types of operations that are beyond the scope of this manual. Many of these operations can be dangerous or deadly if performed incorrectly.

The instructions in this section are written with the understanding that the operator has the necessary knowledge and skills to operate this machine. If at any time you are experiencing difficulties performing any operation, stop using the machine!

If you are an inexperienced operator, we strongly recommend that you read books or trade articles, or seek training from an experienced *Machine Type* operator before performing any unfamiliar operations. Above all, your safety should come first!

Operation

Before making cuts to the workpiece, it is important that all safety precautions and bandsaw adjustments are addressed.

For basic cutting operations, do these steps:

- 1. Select and install the required blade (refer to Blade Selection on Page 24).
- 2. Select the required cutting speed (refer to Blade Speed on Page 23).
- **3.** Raise and lock the headstock, so the blade is approximately 3" from the workpiece, and open the vise to accept the workpiece.

Note: NEVER let the saw blade rest on the workpiece without the saw running. Otherwise, you will permanently damage the saw blade!

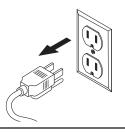
4. Insert the workpiece into the vise, so the blade will contact the flattest part of the workpiece first, and clamp the workpiece in the vise.

AWARNING



READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!

AWARNING



DO NOT investigate problems or adjust the machine while it is running. Wait until the machine is turned *OFF*, unplugged and all working parts have come to a complete stop before proceeding!

WARNING



Always wear safety glasses when operating this machine. Failure to comply may result in serious personal injury.



- **5.** Adjust the cast iron stop for duplicate cuts and install the ejector chute if required.
- 6. Loosen the headstock lock lever (Figure 24), and swivel the headstock to the needed angle of cut, and lock the lever in place.
- 7. Set the blade guide so the guides hold the blade close to the workpiece, and the blade will not twist with a cutting load (refer to **Blade Guides** on **Page 19** for detailed instructions).
- **8.** Open the feed ON/OFF valve and turn the feed rate knob so the feed rate is correct, based on your observations of the blade chip characteristics. Refer to **Feed Rate** on **Page 25** for detailed instructions.

Note: When the cut is complete, the ON/OFF switch push lever will shut *OFF* the bandsaw.

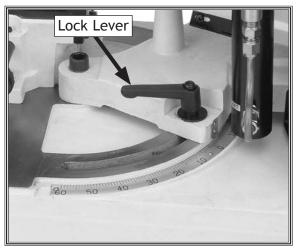


Figure 24. Headstock swivel system.



Blade Speed

The Model M1013 has these three blade speeds: 80, 120, and 200 FPM.

To change blade speeds, do these steps:

- 1. DISCONNECT BANDSAW FROM POWER!
- 2. Determine the best speed for your cut. The table in Figure 25 is provided as a basic guideline. Material thickness and the type of blade used will factor into FPM selection.
- 3. Slacken the V-belt (refer to the **Pulley Cover** subsection on **Page 17** for detailed instructions).
- **4.** Position the V-belt on the pulleys for the desired FPM (feet per minute), as illustrated in **Figure 25**.
- **5.** Correctly tension the V-belt, then close and secure the pulley cover before beginning operation.

Note: These suggested blade speeds are an average for both High Carbon Blades and Bimetal Blades. Refer to your saw blade manufacturer for exact speeds.

| Workpiece Material | Speed in FPM |
|-----------------------|--------------|
| Tool Steel | 90 |
| Stainless Steel | 90 |
| Alloy Steel | 90 |
| Bearing Bronze | 90 |
| High Carbon Steel | 135 |
| Medium Carbon Steel | 135,195 |
| Hard Brass | 195 |
| Hard Bronze | 195 |
| Low Carbon Steel | 195 |
| Soft Brass | 195 |
| Copper | 255 |
| Aluminum | 255 |
| Plastics | 255 |

Note: FPM = Feet Per Minute.

| Speed at 60Hz | Wheel Pulley | Motor Pulley |
|------------------|-----------------|-----------------|
| 80 FPM | | 2 3 |
| 120 FPM | 2 < | 5 < 2 < |
| 200 FPM | | A V |

Figure 25. Blade cutting speed chart.



Blade Selection

The chart below is a basic starting point for choosing blade type based on teeth per inch (TPI) for variable tooth pitch blades and for standard raker type bimetal blades/HSS blades. However, for exact specifications of bandsaw blades, contact the blade manufacturer.

Here are some general rules of thumb with respect to bandsaw blade use.

- At least three teeth must contact the metal at any phase of the cut. Otherwise, the teeth can load up with metal, fracture, and break off. If the TPI is too high, the teeth can load up with material and overheat, damaging the blade.
- For a faster but rougher cut, use a blade with a lower TPI and a higher feed rate.
- For a slower but smoother cut, use a blade with more TPI and a lower feed rate.

To select the correct blade TPI, do these steps:

- 1. Measure the material thickness. This measurement is the length of cut taken from where the tooth enters the workpiece, sweeps through, and exits the workpiece.
- 2. Refer to the "Material Thickness" row of the blade selection chart in Figure 26, and read across to find the workpiece thickness you need to cut.
- 3. Refer to the "Shape" of metal and "Material Type" columns, and find the shape and material to be cut.
- 4. In the applicable row, read across to the right and find the box where the row and column intersect. Listed in the box is the minimum TPI recommended for the variable tooth pitch blades, and the TPI for bimetal raker blades in parentheses.

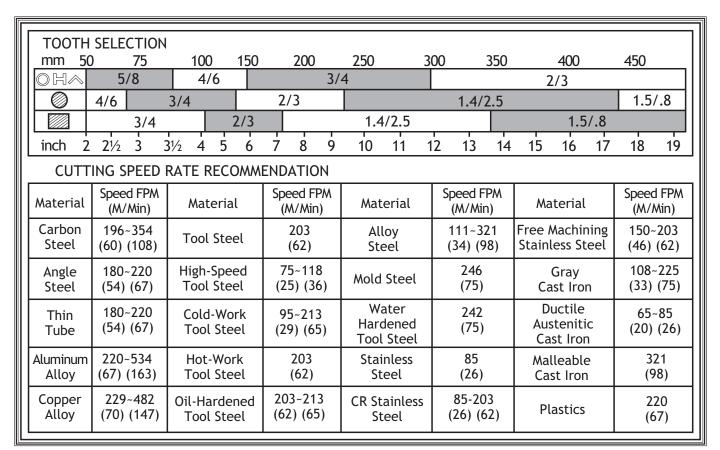


Figure 26. Blade selection chart.



Feed Rate

The speed at which the saw blade will cut through a workpiece is controlled by blade type and feed rate.

The feed rate is controlled by the valve lever and feed rate dial on the hydraulic cylinder shown in Figure 27.

Turning the valve lever in-line with the piping, as shown in the **Figure 28**, opens it up, which allows the fluid to circulate and allows the head to move. Turning the valve lever sideways or perpendicular to the piping closes it, which locks the headstock in place.

The feed rate dial controls the amount of fluid that circulates around the hydraulic cylinder, which in turn, controls the speed that it moves.

To set the feed rate, do these steps:

- 1. Raise the headstock and turn the valve lever sideways (horizontally).
- 2. Clamp the workpiece in the table vise.
- **3.** Move the headstock and blade a few inches above the workpiece.
- **4.** With the correct saw blade installed and blade speed selected, turn the saw ON.
- **5.** Slowly rotate the feed rate dial to a conservative feed rate until the saw begins to cut the workpiece.
- 6. Observe the chips that exit the cut, and increase or decrease the feed rate according to the chip characteristics (see **Figure 28**).

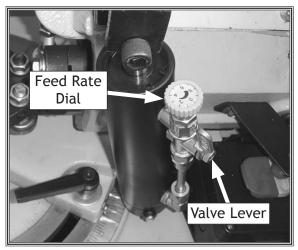


Figure 27. Feed rate dial and lever.

Chips are width of tooth, thin and curled, and silvery:
Optimum speed and feed rate.

Chips are silvery, thin, small, or powdery: Reduce cutting speed or increase feed rate.

Chips are large, curled, blue or brown, or smoking: Reduce speed or decrease feed rate.

Figure 28. Reading chip characteristics.



MAINTENANCE

General

Regular periodic maintenance on your machine will ensure its optimum performance. Make a habit of inspecting your machine each time you use it.

Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Missing or leaking rubber toggle switch boots.
- Worn or damaged cords, switches, or plugs.
- Damaged V-belt.
- Any other condition that could hamper the safe operation of this machine.

Cleaning

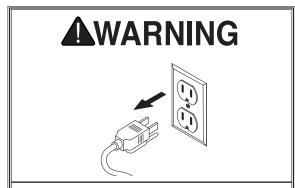
Keeping metal chips away from bandsaw mechanisms is important to ensure that your bandsaw lasts a long time. Use a shop vacuum or brush-off metal chips frequently.

Lubrication

The gearbox and all bearings are sealed and permanently lubricated and no scheduled lubrication is needed. However, you must periodically lubricate adjustment locations and bare metal surfaces. Refer to **Figures** 29–30 for lubrication points.

Lubricate the following areas listed below:

- A. Blade Tension Mechanism: Open the main blade guard, and drop a few drops of oil on the tension knob lead screw.
- **B.** Blade and Guides: Drop a few drops of light machine oil on the blade and the blade guides daily.
- **C. Gear Box:** Is packed with grease and should only be changed if you suspect contamination.
- D. Table and Machined Surfaces: Keep bare metal surfaces rust-free with regular applications of products like SLIPIT®. For long term storage you may want to consider products like Boeshield T-9™.
- **E.** Vise Lead Screw: Drop a few drops of light machine oil on the vise lead screw weekly.



MAKE SURE that your machine is unplugged during all maintenance procedures! If this warning is ignored, serious personal injury may occur.

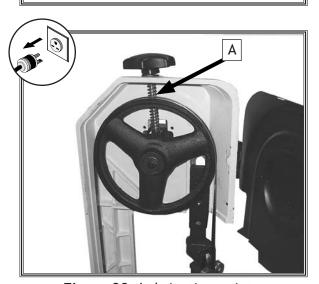


Figure 29. Lubrication points.

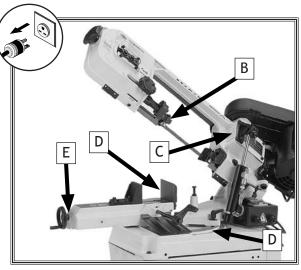


Figure 30. Lubrication points.



SERVICE

General

This section covers the most common service adjustments or procedures that may need to be made during the life of your machine.

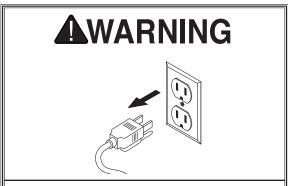
If you require additional machine service not included in this section, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: tech-support@shopfox.biz.

Blade Change

Change the blade when it becomes dull, damaged, or when you are using materials that require a blade of a certain type or tooth count.

To change the bandsaw blade, do these steps:

- DISCONNECT BANDSAW FROM POWER!
- 2. Hold the headstock, un-attach the feed cylinder by removing the cap screw, then raise the headstock to the full vertical position (see Figure 31).
- 3. Push the safety stop in, use a screwdriver to remove the upper and lower blade guide guards, and loosen the blade guides (see Figure 32).



MAKE SURE that your machine is unplugged during all service procedures! If this warning is ignored, serious personal injury may occur.

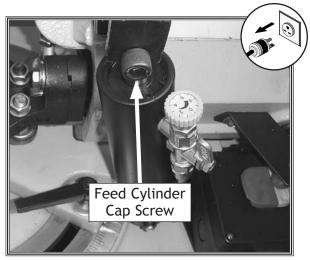


Figure 31. Feed cylinder cap screw.

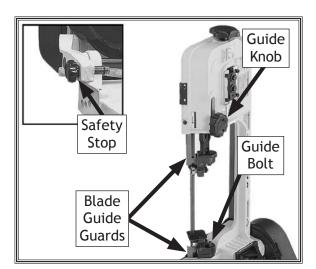


Figure 32. Blade guide guards and fasteners.



- **4.** Loosen the tension knob and slip the blade off of the wheels.
- 5. Install the new blade through both blade guide bearings and around the bottom wheel (see the example in Figure 33).
- 6. Hold the blade around the bottom wheel with one hand and slip it around the top wheel with the other hand, keeping the blade between the blade guide bearings.

Note: It is sometimes possible to flip the blade inside out, in which case the blade will be installed in the wrong direction. Check to make sure the blade teeth are facing toward the workpiece after mounting on the bandsaw. Some blades will have a directional arrow as a guide.

- 7. When the blade is around both wheels, adjust the position so the back of the blade is against the shoulder of the wheels.
- **8.** Tighten the tension knob as tight as necessary so the blade will not slip on the wheels during start up.
- **9.** Spin the wheel by hand until the blade resumes the previous tracking.
 - —If the tracking needs to be adjusted, complete the instructions in the Blade Tracking procedure in the next section.
- 10. Properly adjust the blade tension (Page 18) and the guide bearings (Page 19).



Figure 33. Typical blade installation.



Blade Tracking

The blade tracking has been properly set at the factory. The tracking will rarely need to be adjusted if the bandsaw is used properly.

To adjust the blade tracking on the bandsaw, do these steps:

- DISCONNECT BANDSAW FROM POWER!
- 2. Raise the headstock and lock it in place by pushing in the safety stop knob.
- 3. Remove both blade guide assemblies.
- 4. Open the wheel access cover.
- 5. Loosen, but do not remove the lower cap screw in the blade wheel tilting mechanism (Figure 34).
- 6. Adjust the tracking set screw with a 4mm hex wrench, as shown in Figure 34, then tighten the cap screw loosened in Step 5.
 - -Tightening the set screw will move the blade closer to the shoulder of the wheel.
 - Loosening the set screw will move the blade away from the shoulder.
- 7. Tension the blade.
- **8.** Spin the wheel by hand and observe how the blade tracks on the wheel.
 - —If the blade tracks along the shoulder of the wheel (without rubbing), the blade is tracking properly and this adjustment is completed.
 - —If the blade drifts away from the shoulder of the wheel or hits the shoulder, repeat Steps 5-8.
- 9. Replace the blade guard and blade guide assemblies.
- Adjust the blade guides as needed. Refer to Blade Guides on Page 19.

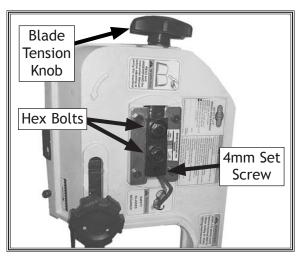


Figure 34. Tracking adjustment controls.



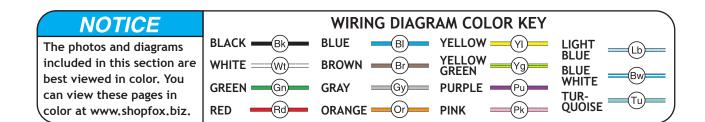
Electrical Safety Instructions

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Study this diagram carefully. If you notice differences between your machine and these wiring diagrams, call Woodstock International Technical Support at (360) 734-3482.

AWARNING

- 1. SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!
- 2. QUALIFIED ELECTRICIAN. Due to the inherent hazards of electricity, only a qualified electrician should perform wiring tasks on this machine. If you are not a qualified electrician, get help from one before attempting any kind of wiring job.
- 3. WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.
- 4. WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components before completing the task.

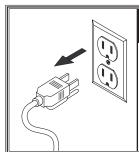
- 5. MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.
- **6. MODIFICATIONS.** Using aftermarket parts or modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire.
- 7. CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to five minutes after being disconnected from the power source. To avoid being shocked, wait at least this long before working on these components.
- **8. ELECTRICAL REQUIREMENTS.** You MUST follow the electrical requirements at the beginning of this manual when connecting your machine to a power source.
- EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (360) 734-3482.





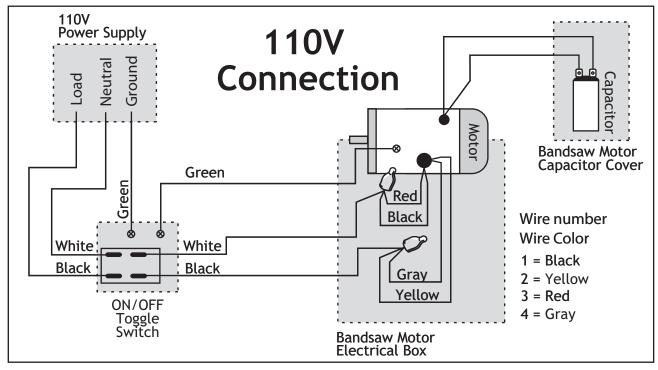
Wiring Diagram

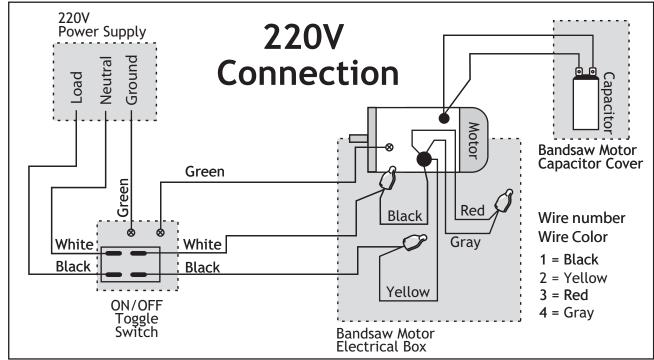




▲DANGER

Disconnect power from machine before performing any electrical service. Failure to do this will result in a shock hazard leading to injury or death.







Troubleshooting

This section covers the most common problems and corrections with this type of machine. WARNING! DO NOT make any adjustments until power is disconnected and moving parts have come to a complete stop!



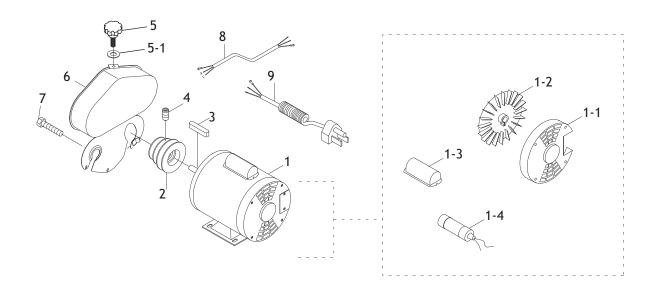
| PROBLEM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|-----------------------------|---|--|
| Machine does not start or a | 1. Plug/receptacle is at fault or wired | 1. Test for good contacts; correct the wiring. |
| breaker trips. | incorrectly. | |
| | 2. Start capacitor is at fault. | 2. Test/replace if faulty. |
| | 3. Wall fuse/circuit breaker is blown/ | 3. Ensure correct size for machine load; replace weak |
| | tripped. | breaker. |
| | 4. Motor connection wired incorrect- | 4. Correct motor wiring connections. |
| | ly. | |
| | 5. Power supply is at fault/switched | 5. Ensure hot lines have correct voltage on all legs and |
| | OFF. | main power supply is switched ON. |
| | | 6. Replace faulty ON/OFF switch. |
| | 6. Motor ON/OFF switch is at fault. | 7. Check for broken wires or disconnected/corroded |
| | 7. Wiring is open/has high resistance. | connections, and repair/replace as necessary. |
| | 8. Motor is at fault. | 8. Test/repair/replace. |
| Machine stalls or is under- | 1. Wrong blade for the workpiece | 1. Use blade with correct properties for your type of |
| powered. | material. | cutting. |
| | 2. Wrong workpiece material. | 2. Use metal with correct properties for your type of |
| | | cutting. |
| | 3. Feed rate/cutting speed too fast | 3. Decrease feed rate/cutting speed. |
| | for task. | |
| | 4. Blade is slipping on wheels. | 4. Adjust blade tracking and tension. |
| | 5. Low power supply voltage. | 5. Ensure hot lines have correct voltage on all legs. |
| | 6. Motor bearings are at fault. | 6. Test by rotating shaft; rotational grinding/loose |
| | 7. Plum/manntania in at fault | shaft requires bearing replacement. |
| | 7. Plug/receptacle is at fault. | 7. Test for good contacts; correct the wiring. |
| | 8. Motor connection is wired incor- | 8. Correct motor wiring connections. |
| | rectly. 9. Motor has overheated. | 9. Clean off motor, let cool, and reduce workload. |
| | 10. Motor is at fault. | 10. Test/repair/replace. |
| Machine has vibration or | | |
| noisy operation. | 1. Motor fan is rubbing on fan cover. | 1. Replace dented fan cover; replace loose/damaged fan. |
| noisy operation. | 2. Blade is at fault. | 2. Replace/resharpen blade. |
| | 3. Gearbox is at fault. | 3. Rebuild gearbox for bad gear(s)/bearing(s). |
| | 4. Wrong blade & too slow of speed. | 4. Change blade and or speed. |
| Machine is loud when cut- | Excessive feed rate. | Refer to Feed Rate on Page 25, or Blade Speed on |
| ting or bogs down in the | i. Lacessive reed rate. | Page 23, and adjust as required. |
| cut. | 2. The blade TPI is too great, or the | l |
| | material is too coarse. | l |
| | ווומנפוומנ וז נטט נטמוזפ. | required. |

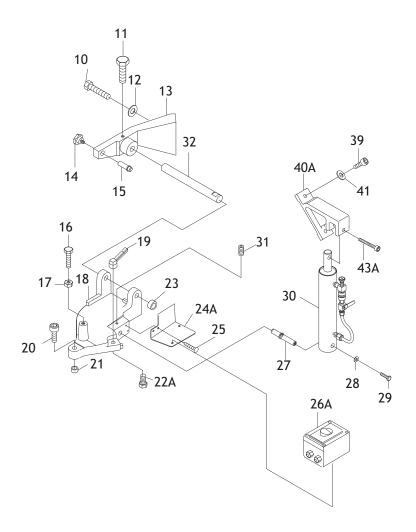


| PROBLEM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|----------------------------|--|--|
| Blades break often. | Blade is not tensioned correctly. | 1. Check to see that blade is not excessively tight or |
| Stades Steak often. | Brade is not tensioned correctly. | too loose. |
| | 2. The workpiece is loose in the vise. | 2. Clamp the workpiece tighter, or use a jig to hold the |
| | | workpiece. |
| | 3. The feed or cut speed is wrong. | 3. Refer to Feed Rate on Page 25, or Blade Speed on |
| | | Page 23, and adjust as required. |
| | 4. The blade TPI is too great, or the | |
| | material is too coarse. | required. |
| | 5. The blade is rubbing on the wheel flange. | 5. Refer to Blade Tracking on Page 29 , and adjust as required. |
| | 6. The bandsaw is being started | 6. Start bandsaw and then slowly lower the headstock |
| | with the blade resting on the workpiece. | by setting the feed rate. |
| | 7. The guide bearings are misaligned, | 7. Refer to Blade Tracking on Page 29, or Blade Guides |
| | or the blade is rubbing on the | on Page 19 and adjust as required. |
| | wheel flange. | |
| | 8. The blade is too thick, or the | 8. Use a higher quality blade. |
| | blades are of low quality. | |
| Blade dulls prematurely. | 1. The cutting speed is too fast. | 1. Refer to Blade Speed on Page 23 , and adjust as |
| | 2. The blade TDI is the conver | required. |
| | 2. The blade TPI is too coarse. | 2. Refer to Blade Selection on Page 24 , and adjust as required. |
| | 3. The blade feed pressure is too | · · |
| | light. | required. |
| | 4. The workpiece has hard spots, | l · |
| | welds, or scale is on the material. | speed. |
| | 5. The blade is twisted. | 5. Replace the blade. |
| | 6. The blade is slipping on the | |
| | wheels. | required. |
| Blade wears on one side. | 1. The blade guides are worn or mis- | 1. Refer to Blade Guides on Page 19 and replace or |
| | adjusted. 2. The blade guide slide bracket is | adjust. 2 Tighten the blade guide bracket |
| | loose. | 2. Figure i the blade guide blacket. |
| | The wheels are out of alignment. | 3. Refer to Blade Tracking on Page 29, and adjust as |
| | _ | required. |
| Teeth are ripping from the | 1. The feed pressure is too heavy and | 1. Refer to Blade Selection on Page 24 and decrease |
| blade. | the blade speed is too slow; or | the feed pressure. Refer to Feed Rate on Page 25, |
| | the blade TPI is too coarse for the | and adjust as required. |
| | workpiece. 2. The workpiece is vibrating in the | Re-clamp the workpiece in the vise, and use a jis if |
| | vise. | 2. Re-clamp the workpiece in the vise, and use a jig if required. |
| | 3. The blade gullets are loading up | 3. Use a coarser-tooth blade. |
| 1 | with chips. | |



PARTS Motor & Feed Rate Control







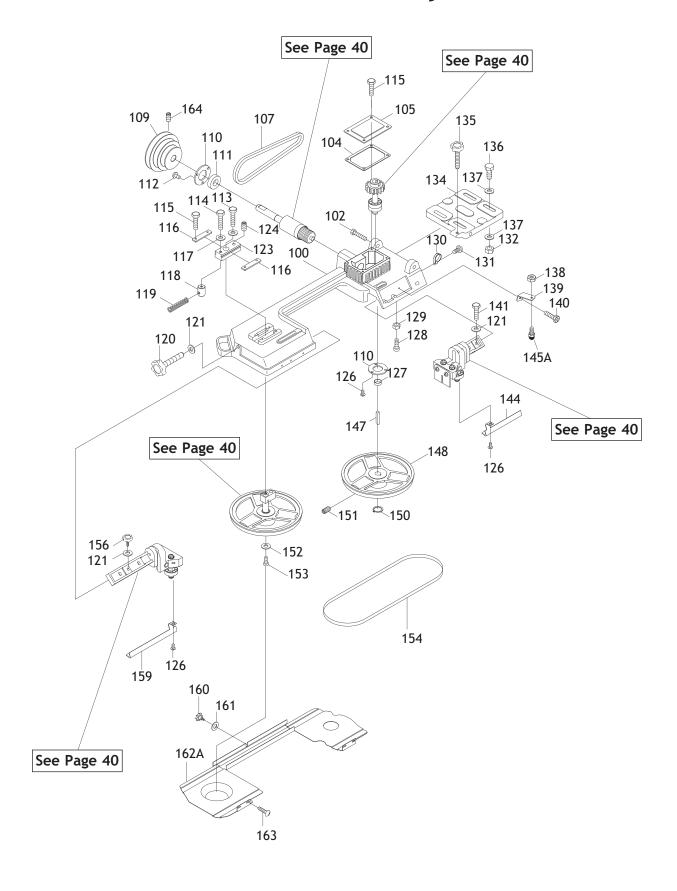
Motor & Feed Rate Control Parts List

| REF | PART # | DESCRIPTION |
|-----|-------------|--------------------------|
| 1 | XM1013001 | MOTOR 1/2HP 110/220V 1PH |
| 1-1 | XM1013001-1 | MOTOR FAN COVER |
| 1-2 | XM1013001-2 | MOTOR FAN |
| 1-3 | XM1013001-3 | CAPACITOR COVER |
| 1-4 | XPC200 | S CAPACITOR 200M 125V |
| 2 | XM1013002 | MOTOR PULLEY |
| 3 | XPK12M | KEY 5 X 5 X 30 |
| 4 | XPSS17 | SET SCREW 5/16-18 X 5/16 |
| 5 | XPHTEK11 | KNOB BOLT 1/4-20 X 5/8 |
| 5-1 | XPW06 | FLAT WASHER 1/4 |
| 6 | XM1013006 | BELT COVER |
| 7 | XPB19 | HEX BOLT 1/4-20 X 1/2 |
| 8 | XM1013008 | MOTOR CABLE |
| 9 | XM1013009 | POWER CABLE |
| 10 | XPB03 | HEX BOLT 5/16-18 X 1 |
| 11 | XPB07 | HEX BOLT 5/16-18 x 3/4 |
| 12 | XPW07 | FLAT WASHER 5/16 |
| 13 | XM1013013 | PIVOT |
| 14 | XM1013014 | KNOB BOLT 1/4-20 X 5/8 |
| 15 | XM1013015 | SPECIAL PIN 10 X 38.5 MM |
| 16 | XPB58 | HEX BOLT 3/8-16 X 2 |

| REF | PART # | DESCRIPTION |
|-----|------------|---------------------------------|
| 17 | XPN08 | HEX NUT 3/8-16 |
| 18 | XM1013018 | BRACKET |
| 19 | XM1013019 | HANDLE |
| 20 | XPCAP97 | CAP SCREW 1/2-12 X 2-1/2 |
| 21 | XPN13 | HEX NUT 1/2-13 |
| 22A | XM1013022A | SPECIAL BOLT 3/8"-16 X 1 3/4" |
| 23 | XM1013023 | BUSHING 19 X 17 X 7 |
| 24A | XM1013024A | SWITCH BASE V2.10.06 |
| 25 | XPS06 | PHLP HD SCR 10-24 X 3/8 |
| 26A | XM1013026A | SWITCH BOX V2.08.06 |
| 27 | XM1013027 | SUPPORT ROD |
| 28 | XPW03 | FLAT WASHER #10 |
| 29 | XPS06 | PHLP HD SCR 10-24 X 3/8 |
| 30 | XM1013030 | CYLINDER ASSEMBLY |
| 31 | XPSS04 | SET SCREW 1/4-20 X 5/16 |
| 32 | XM1013032 | PIVOTING ROD |
| 39 | XPCAP05 | CAP SCREW 1/4-20 X 3/4 |
| 40A | XM1013040A | CYLINDER UPPER SUPPORT V2.10.06 |
| 41 | XPLW01 | LOCK WASHER 5/16 |
| 43A | XM1013043A | SPECIAL CAP SCREW V2.10.06 |



Saw Assembly





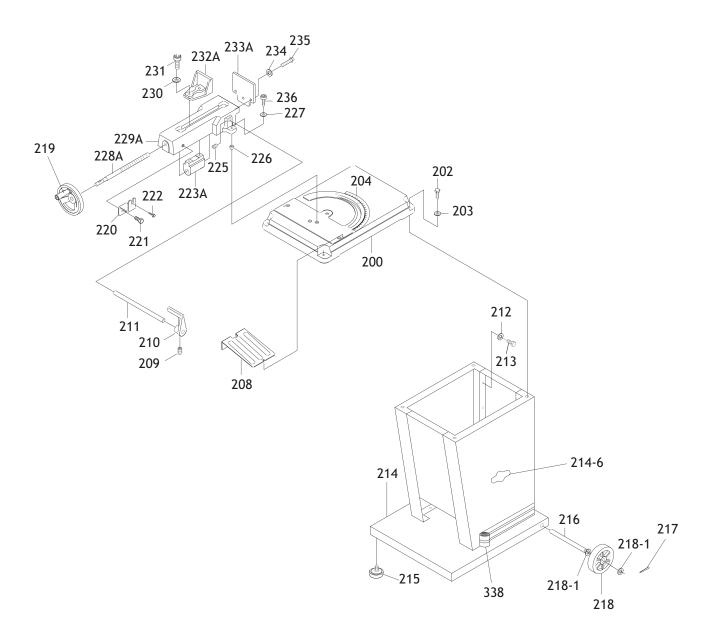
Saw Assembly Parts List

| REF | PART # | DESCRIPTION |
|-----|-----------|-----------------------------|
| 100 | XM1013100 | BODY FRAME |
| 102 | XPB41 | HEX BOLT 1/2-12 X 1-1/2 |
| 104 | XM1013104 | GEAR BOX GASKET |
| 105 | XM1013105 | PLATE |
| 107 | XPVA23 | V-BELT A-23 |
| 109 | XM1013109 | PULLEY |
| 110 | XM1013110 | BEARING COVER |
| 111 | XM1013111 | OIL SEAL |
| 112 | XPS24 | PHLP HD SCR 8-32 X 3/8 |
| 113 | XPB03 | HEX BOLT 5/16-18 X 1 |
| 114 | XPB07 | HEX BOLT 5/16-18 x 3/4 |
| 115 | XPB02 | HEX BOLT 1/4-20 X 5/8 |
| 116 | XM1013116 | BLADE TENSION SLIDING GUIDE |
| 117 | XPW07 | FLAT WASHER 5/16 |
| 118 | XM1013118 | SHAFT BLOCK |
| 119 | XM1013119 | COMPRESSION SPRING |
| 120 | XM1013120 | BLADE TENSION KNOB |
| 121 | XPW02 | FLAT WASHER 3/8 |
| 123 | XM1013123 | BLADE TENSION SLIDING PLATE |
| 124 | XPSS38 | SET SCREW 5/16-18 X 5/8 |
| 126 | XPS08M | PHLP HD SCR M58 X 12 |
| 127 | XM1013127 | BUSHING |
| 128 | XPCAP05 | CAP SCREW 1/4-20 X 3/4 |
| 129 | XPN05 | HEX NUT 1/4-20 |
| 130 | XM1013130 | WIRE CLAMP |
| 131 | XPS06 | PHLP HD SCR 10-24 X 3/8 |

| PART # | DESCRIPTION |
|------------|--|
| XPN02 | HEX NUT 5/16-18 |
| XM1013134 | MOTOR MOUNT PLATE |
| XM1013135 | KNOB BOLT 5/16-18 X 1-3/4 |
| XPB07 | HEX BOLT 5/16-18 x 3/4 |
| XPW07 | FLAT WASHER 5/16 |
| XPN08 | HEX NUT 3/8-16 |
| XM1013139 | SWITCH CUT OFF TIP |
| XPCAP04 | CAP SCREW 1/4-20 X 1/2 |
| XPB24 | HEX BOLT 3/8-16 X 1-1/4 |
| XM1013144 | RIGHT SAFETY GUARD (OPTION) |
| XM1013145A | STOP BOLT 3/8-16 X 1 V2.10.06 |
| XPK23M | KEY 5 X 5 X 25 |
| XM1013148 | FRONT BLADE WHEEL |
| XPR05M | EXT RETAINING RING 15MM |
| XPSS17 | SET SCREW 5/16-18 X 5/16 |
| XPW07 | FLAT WASHER 5/16 |
| XPB07 | HEX BOLT 5/16-18 x 3/4 |
| XM1013154 | BLADE 1/2" X 0.025" X 64-1/2" |
| XM1013156 | KNOB BOLT 3/8-16 X 1-1/4 |
| XM1013159 | LEFT SAFETY GUARD |
| XM1013160 | KNOB BOLT 1/4"-20 X 5/8" |
| XPW06 | FLAT WASHER 1/4 |
| XM1013162A | PLASTIC SAFETY COVER V2.08.06 |
| XPS06 | PHLP HD SCR 10-24 X 3/8 |
| XPSS17M | SET SCREW M8-1.25 X 6 |
| | XPN02 XM1013134 XM1013135 XPB07 XPW07 XPW07 XPN08 XM1013139 XPCAP04 XPB24 XM1013144 XM1013145A XPK23M XM1013148 XPR05M XPSS17 XPW07 XPB07 XM1013154 XM1013156 XM1013159 XM1013160 XPW06 XM1013162A XPS06 |



Stand Assembly





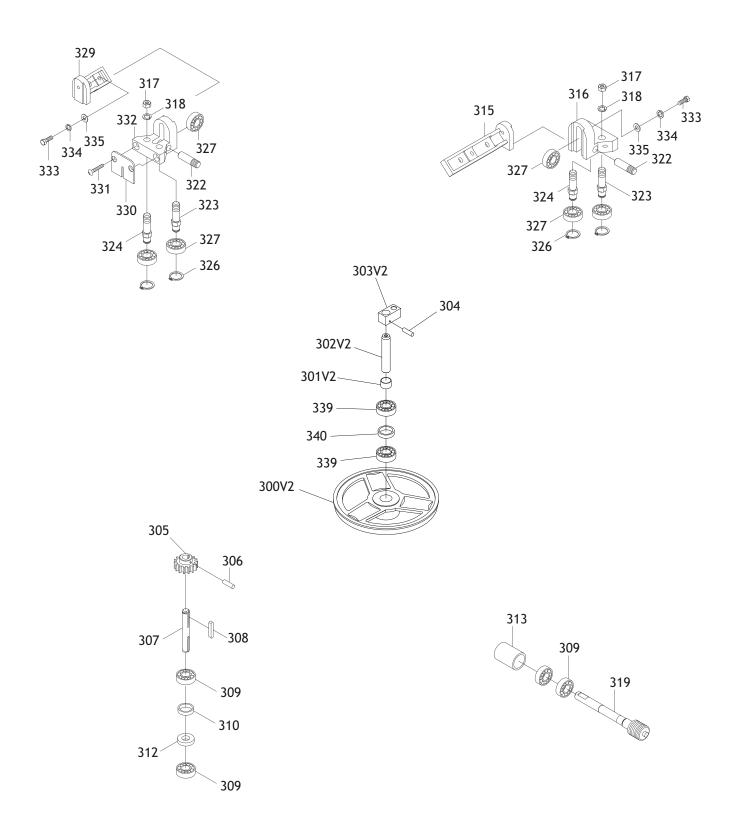
Stand Assembly Parts List

| REF | PART # | DESCRIPTION |
|-------|-------------|----------------------------|
| 200 | XM1013200 | BASE |
| 202 | XPB26M | HEX BOLT M8-1.25 X 30 |
| 203 | XPLW04M | LOCK WASHER 8MM |
| 204 | XM1013204 | SCALE |
| 208 | XM1013208 | EJECTOR PLATE |
| 209 | XPSS17 | SET SCREW 5/16-18 X 5/16 |
| 210 | XM1013210 | DISTANCE SET BRACKET |
| 211 | XM1013211 | STOCK STOP ROD 1/2" |
| 212 | XPW01M | FLAT WASHER 8MM |
| 213 | XPB03M | HEX BOLT M8-1.25 X 16 |
| 214 | XM1013214 | DELUXE STAND ASSEMBLY |
| 214-6 | XM1013214-6 | SHOP FOX LOGO 2-5/16" X 5" |
| 215 | XM1013215 | RUBBER FOOT |
| 216 | XM1013216 | WHEEL ROD |
| 217 | XM1013217 | COTTER PIN 1/8 X 1 |
| 218 | XM1013218 | WHEEL |
| 218-1 | XPW27MM | FLAT WASHER 17MM |
| 219 | XM1013219 | HANDWHEEL ASSEMBLY |

| REF | PART # | DESCRIPTION |
|------|------------|---------------------------|
| 220 | XM1013220 | PLATE |
| 221 | XPCAP30 | CAP SCREW 5/16-18 X 1/2 |
| 222 | XPS04 | PHLP HD SCR 1/4-20 X 1/2 |
| 223A | XM1013223A | BRACKET W/NUT V2.01.08 |
| 225 | XPSS03 | SET SCREW 1/4-20 X 3/8 |
| 226 | XM1013226 | BUSHING |
| 227 | XPLW01 | LOCK WASHER 5/16 |
| 228A | XM1013228A | ACME SCREW V2.01.08 |
| 229A | XM1013229A | VISE BASE V2.01.08 |
| 230 | XPW07 | FLAT WASHER 5/16 |
| 231 | XPCAP69 | CAP SCREW 5/16-18 X 1/4 |
| 232A | XM1013232A | VICE HALF V2.01.08 |
| 233A | XM1013233A | WALL PLATE V2.01.08 |
| 234 | XPW07 | FLAT WASHER 5/16 |
| 235 | XPB07 | HEX BOLT 5/16-18 x 3/4 |
| 236 | XPCAP08 | CAP SCREW 5/16-18 X 1-1/2 |
| 338 | XM1013338 | STRIPE FOR STAND 6" X 4' |



Guides & Shafts





Guides & Shafts Parts List

| REF | PART # | DESCRIPTION |
|-------|-------------|----------------------------|
| 300V2 | XM1013300V2 | REAR BLADE WHEEL V2.06.09 |
| 301V2 | XM1013301V2 | BUSHING V2.06.09 |
| 302V2 | XM1013302V2 | BLADE WHEEL SHAFT V2.06.09 |
| 303V2 | XM1013303V2 | AXLE BLOCK V2.06.09 |
| 304 | XPRP39M | ROLL PIN 4 X 20 |
| 305 | XM1013305 | WORM GEAR |
| 306 | XPRP20M | ROLL PIN 4 X 22 |
| 307 | XM1013307 | TRANSMISSION WHEEL SHAFT |
| 308 | XPK23M | KEY 5 X 5 X 25 |
| 309 | XP6202-OPEN | BALL BEARING 6202 OPEN |
| 310 | XM1013310 | BUSHING |
| 312 | XM1013312 | SEAL |
| 313 | XM1013313 | BUSHING |
| 315 | XM1013315 | LEFT ADJUSTABLE BRACKET |
| 316 | XM1013316 | FRONT GUIDE CASTING |
| 317 | XPN08 | HEX NUT 3/8-16 |

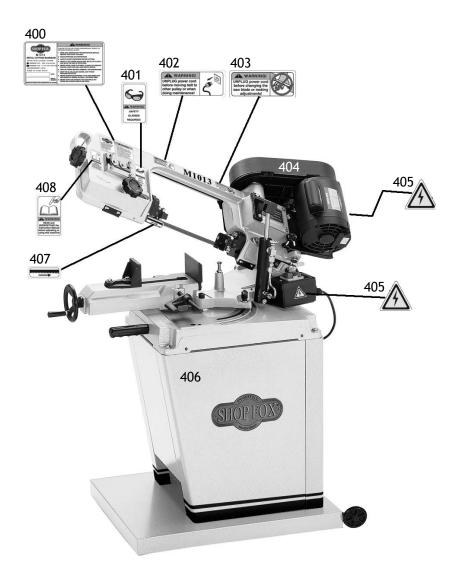
| REF | PART # | DESCRIPTION |
|-----|-------------|--------------------------|
| 318 | XPLW04 | LOCK WASHER 3/8 |
| 319 | XM1013319 | WORM GEAR SHAFT |
| 322 | XM1013322 | SPECIAL PIN 10 X 40MM |
| 323 | XM1013323 | GUIDE ECCENTRIC |
| 324 | XM1013324 | GUIDE SHAFT |
| 326 | XPR01M | EXT RETAINING RING 10MM |
| 327 | XP6000-OPEN | BALL BEARING 6000 OPEN |
| 329 | XM1013329 | RIGHT ADJUSTABLE BRACKET |
| 330 | XM1013330 | STOP PLATE |
| 331 | XPFH03 | FLAT HD SCR 1/4-20 X 1/2 |
| 332 | XM1013332 | REAR GUIDE CASTING |
| 333 | XPB03 | HEX BOLT 5/16-18 X 1 |
| 334 | XPLW01 | LOCK WASHER 5/16 |
| 335 | XPW07 | FLAT WASHER 5/16 |
| 339 | XP6202ZZ | BALL BEARING 6202 ZZ |
| 340 | XM1013340 | BUSHING |



Machine Labels

AWARNING

Safety labels warn about machine hazards and how to prevent machine damage or injury. The owner of this machine MUST maintain the original location and readability of all labels on this machine. If any label is removed or becomes unreadable, REPLACE that label before allowing the machine to enter service again. Contact Woodstock International, Inc. at (360) 734-3482 or www. shopfoxtools.com to order new labels.



| REF | PART # | DESCRIPTION |
|-----|----------------------------------|------------------------------|
| 400 | XM1013400 | MACHINE ID LABEL |
| 401 | XM1013401 SAFETY GLASSES LABEL | |
| 402 | XM1013402 DISCONNECT POWER LABEL | |
| 403 | XM1013403 | AMPUTATION HAZARD LABEL |
| 404 | XPPAINT-7 | SHOPFOX BLACK TOUCH-UP PAINT |

| REF | PART # | DESCRIPTION |
|-----|-------------|------------------------------|
| 405 | XLABEL-04 | ELECTRICITY LABEL |
| 406 | XPPAINT-1 | SHOPFOX WHITE TOUCH-UP PAINT |
| 407 | XM1013123-1 | BLADE TENSION LABEL |
| 408 | XLABEL-12 | READ MANUAL LABEL |



Warranty Registration

| | State | | |
|---|---|--|--|
| | | | Zip |
| e # | | | Invoice # |
| el #Serial # | | Dealer Name | Purchase Date |
| | | - | |
| Advertisement | _ | | Local Store Other: |
| | | | /ears20+ Years |
| | | s are Shop Fox? 6-9 | 10+ |
| Do you think your mach | nine represer | nts a good value? | Yes No |
| Would you recommend | Shop Fox pro | oducts to a friend? | Yes No |
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| Comments: | | | |
| | following information is good better products and so does better products and so does does does does does does does | How did you learn about us? Advertisement Mail Order Catalog How long have you been a woodwor O-2 Years How many of your machines or tool O-2 O you think your machine represer Would you recommend Shop Fox pro What is your age group? 20-29 50-59 What is your annual household incom \$20,000-\$29,000 \$50,000-\$59,000 Which of the following magazines described in the fol | Advertisement Friend Website |

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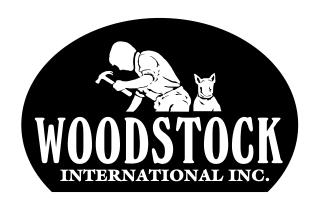
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